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(71)Applicant : **SAMSUNG ELECTRONICS CO LTD**

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(72)Inventor : **KEN HIN  
LEE MYUNG-JONG**

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## (54) METHOD FOR BLUETOOTH ON-DEMAND ROUTING AND NETWORK FORMATION METHOD, AND COMMUNICATION METHOD OF BLUETOOTH AD HOC NETWORK

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a method for Bluetooth on-demand routing and network formation method by which a route is formed just as requested by a source in a Bluetooth ad hoc network system.

SOLUTION: The Bluetooth network system has a source node, a destination node and a plurality of independent nodes. The method includes a forward path set-up step and a backward path set-up step. In the forward path set-up step, the source node sends out a route request message, thus setting up multi forward paths toward the source node and the destination node. In the backward path set-up step, the destination node in receipt of the route request message sends out a route reply message to the source node through one of the set forward paths, thus setting up a backward path. Through the set backward path, a route is formed as the most suitable path between the source node and the destination node.

